

## HW 11.6

Date \_\_\_\_\_ Algebra \_\_\_\_\_

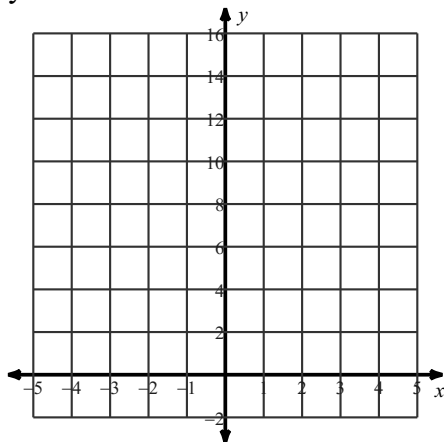
**Solve each of the following Systems ALGEBRAICALLY!**

$$1) \begin{aligned} f(x) &= x^2 - 3x - 4 \\ g(x) &= x - 8 \end{aligned}$$

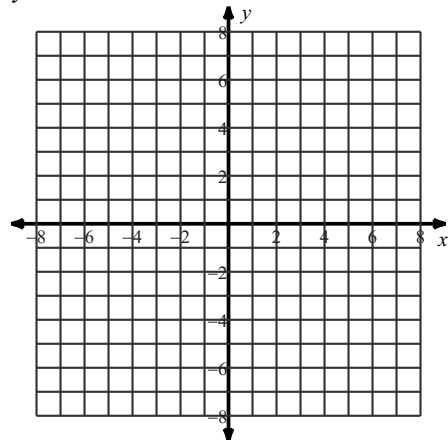
$$2) \begin{aligned} a(x) &= (x + 2)^2 - 1 \\ b(x) &= -2x - 2 \end{aligned}$$

**Solve the following Quadratic- Linear Equations GRAPHICALLY!!!**

$$3) \begin{aligned} y &= (x + 1)^2 - 2 \\ y &= 3x + 5 \end{aligned}$$



$$4) \begin{aligned} y &= 3x^2 + 1 \\ y &= -x^2 + 1 \end{aligned}$$



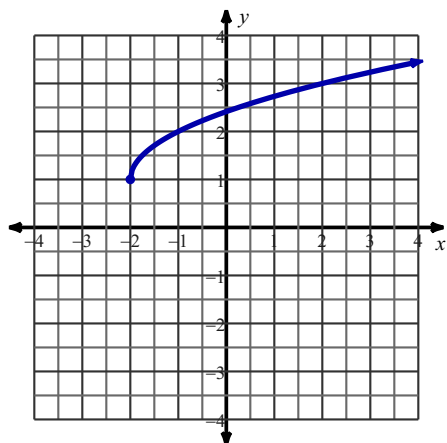
**Solve these quadratic-quadratic system!**

5)  $y = x^2 + 5x + 1$   
 $y = -4x^2 + 1$

6) FAMILY: \_\_\_\_\_

DOMAIN: \_\_\_\_\_

RANGE: \_\_\_\_\_



7) FAMILY: \_\_\_\_\_

DOMAIN: \_\_\_\_\_

RANGE: \_\_\_\_\_

